VEM-XP Kit

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Vaccine Efficacy Monitoring: Get a more comprehensive picture

DESTINATION
Expedited development of better therapeutics with biomarkers

Monitor Cellular Immune Response

Monitor Humoral Immune Response

Cost Effective Method

Vem-XP makes use of Althea's patented XP technology, a highly-multiplexed, quantitative RT-PCR® strategy that incorporates the use of gene-specific and universal primers to lock gene ratios during the amplification process. This cost efficient method, which yields data on 20-35 genes per reaction, enables researchers to extend their gene expression studies to large number of samples, increasing the statistical power of gene expression information. The technology is highly complementary to microarray analysis and enables researchers to further exploit their microarray discoveries.

EXPRESS PATHWAY

SIGNATURE DISCOVERY

Genes chosen are key Biomarkers for monitoring cellular and humoral response

BIOMARKER DEVELOPMENT

Critical Biomarker probe set developed and consolidated into a single assay

DIAGNOSTIC TOOL

Monitor response in preclinical and/or clinical patients

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Predictive Drug Response

Cellular Immune Response
- Type 1
- Maximizes the killing efficacy of the macrophages and in the proliferation of cytotoxic CD8+ T cells

Humoral Immune Response
- Type 2
- Humoral Immune system. Stimulates B Cells into proliferation, to induce B-cell antibody class switching and to increase antibody production

Comprehensive Efficacy Picture

EXPRESS PATHWAY
A Proven Route: From Biomarkers to Bedside

Predictive Drug Respones

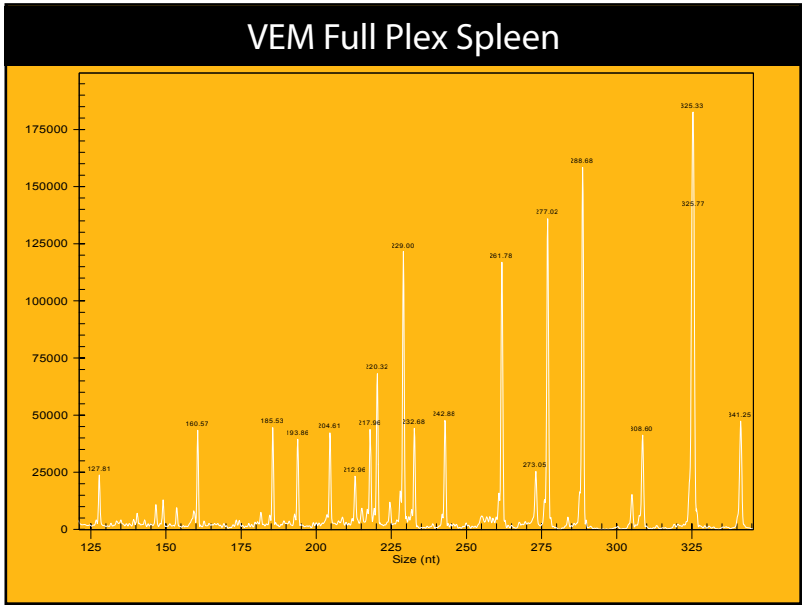
Cellular Immune Response

Humoral Immune Response

Comprehensive Efficacy Picture

FEATURES:

- √ Monitor PBMC gene expression response to antigen challenge
- √ 22 Immunologically relevant genes covering cellular and humoral immune reponses
- √ Single PCR multiplexing using Beckman GeXP system
- √ Directly integrates into standard ELISpot protocols.



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